

# GAS FREE ENGINEERING



K-495-0051



# *Sailor's Creed*

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- ★ I am a United States Sailor.
- ★ I will support and defend the Constitution of the United States of America, and I will obey the orders of those appointed over me.
- ★ I represent the fighting spirit of the Navy and those who have gone before me to defend freedom and democracy around the world.
- ★ I proudly serve my country's Navy combat team with honor, courage and commitment.
- ★ I am committed to excellence and the fair treatment of all.



# *Drug and Alcohol Policy*

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Alcohol and Drug Abuse  
**DON'T DO IT !!!!!!!**



It is Imperative that while in a learning environment you remain alert and possess unimpaired mental faculties.





## *Purpose of the course*

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- ★ To provide Officers and Enlisted personnel (E-4 and above) with training on operating, inspecting and maintaining Gas Free Engineering Equipment and procedures required for Gas Free Engineer Services on surface ships.



**Train for success...**





# Course Schedule, Day 1

## ★ Day 1, lesson topics 1.1 to 1.5

- 0700 – 0750 INTRO
- 0800 – 0850 PRE-TEST
- 0900 – 0950 GAS-FREE ENGINEERING  
FAMILIARZATION
- 1000 – 1050 THE ROLE OF THE GAS-FREE  
ENGINEER
- 1100 – 1200 ***LUNCH***
- 1200 – 1350 GAS-FREE PROTECTIVE MEASURES
- 1400 – 1450 EMERGENCY RESCUE OPERATIONS
- 1500 - 1545 HAZARDOUS MATERIAL  
IDENTIFICATION AND SPILL RESPONSE



# Course Schedule

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## ★ Day 2, lesson topics 2.1 to 2.3

- 0700 – 0850 GAS-FREE TESTING EQUIPMENT
- 0900 – 0950 GAS-FREE TESTING EQUIPMENT AND LAB
- 1000 – 1050 VENTILATION
- 1100 – 1200 ***LUNCH***
- 1200 – 1250 VENTILATION (Assignment)
- 1300 – 1350 POST- FIRE ATMOSHERIC TESTING
- 1400 – 1545 LABS: 4Gas Analyzer, Drager, SAR/SCBA, Confined Space entry





# Course Schedule

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## ★ Day 3, lesson topics 3.1 to 3.4

- 0700 – 0850 CLEANING AND GAS-FREEING
- 0900 – 0950 GAS-FREE PROCEDURES FOR HOT WORK
- 1000 – 1050 GAS-FREE PROCEDURES FOR PAINTING OPERATIONS
- 1100 – 1200 ***LUNCH***
- 1200 – 1350 GAS-FREE INSPECTION AND CERTIFICATION
- 1400 – 1545 LAB: GAS-FREE INSPECTION AND CERTIFICATION





# *Course Schedule, week 1*

## ★ Day 4

0700 – 0750	FINAL REVIEW
0800 – 0850	FINAL EXAM
0900 – 0950	CRITIQUES
1000 – 1050	CLEAN-UP
1100 – 1150	GRADUATION
1200	DEPART





# *Class Rules & Norms*

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★ Turn off or place cell phones on vibrate

★ Raise hand if you have a question

★ No sleeping in class

★ Pick up after yourself

★ Keep an open mind

★ Study for final





# *Testing Procedure*

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- ★ Minimum passing grade is 80
  - Can only miss 10 questions on final
- ★ No talking or cheating
- ★ No writing on exams
- ★ Completely darken in selected answer
- ★ Course review after exam





# *Appointments, Absence & Disenrollment*

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- ★ If you have an appointment during this course, let the instructors know ASAP
- ★ You may be disenrolled for the following:
  - Failure to Participate
  - Missing 10% or more of the course (**2 topics**)
- ★ Sleeping in the class
  - 1st Infraction: Stand up
  - 2nd Infraction: Counseling by lead instructor
  - 3rd Infraction: Disenrollment



# *Facilities*

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## ★ Sick Bay

- Sewell's Point Medical

## ★ Student Parking

- Across from Bowling Alley, any unmarked spot

## ★ Heads

- In the middle of the passageway, each deck

## ★ Smoking area, between BLDG O- 26 / BLDG N-25





# *Facilities*

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## ★ Telephones

- Official business, contact instructor
- Pay phone on the first deck, next to the microwave

## ★ Chow

- Soda and vending machines on the first deck.  
(no eating or drinking in the passageways)
- Bowling Alley, Main Exchange food Court
- Naval Station Galley, BLDG C-9



# *Uniforms*

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- ★ The highest standards of uniform will be maintained at all times.
- ★ Personnel inspections can occur at any time.
- ★ Uniform for classroom and lab events
  - **E-6** & below Uniform of the Day  
Summer Whites/Winter Blues
  - E-7** & above Dress Khaki



# *Safety*

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- ★ When rigging the hoses on the SAR/SCBA, ensure the safety lanyard is connected
- ★ Think safety at all times!





## *TTO Policy*

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Every effort is made to ensure our training evolutions are as safe as possible. If at any time during the lab you are concerned about your personnel safety or the safety of another, need clarification on procedures or requirements, call for a  
**TRAINING TIME OUT.**





## *TTO Policy*

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The instructor will immediately stop the training evolution and clarify the situation, providing additional instruction or take appropriate action to resolve the problem. During labs or when a voice cannot be easily heard, a TTO can be called by using hand signals.



## *TTO Policy*

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Wave both hands back and forth over your head, while shouting

**“ Training Time Out”**





# *Mishaps OR Near mishaps*



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★ Report all mishaps to the instructor

★ **Mishap**

– Any event that results in personnel injury or property damage, no matter how slight.



★ **Near Mishap**

– Any event that could result in personnel injury or property damage but is avoidable



★ **Unsafe condition**

– Situation, procedure that you believe could cause injury



# *SAFETY MISHAP INVESTIGATION*

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★ The CNE Safety Officer will conduct a safety investigation of every Mishap whether deemed major or minor



★ The immediate supervisor or senior instructor present at the time of a training mishap will immediately notify the chain of command and initiate a safety investigation.





# *Emergency Action Plan*

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## ★ Fire procedures

- Evacuate the building and muster in front of building O-26 across the street (between Bowling Alley and Mini-mart).

## ★ Bomb Threat

- Same as fire

## ★ If you have any questions, ask instructors



## *Phone number*

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★ CNE Main Quarterdeck

– 757-444-5332 ext. 0



★ DC School

– 757-444-5332 ext. 3108/3104





# *Review and Summary*

★ Any Questions ??????

